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(71)Applicant : SUMITOMO ELECTRIC IND LTD

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(54) INTERFERENCE COMPENSATOR FOR MOBILE IDENTIFICATION SYSTEM

(57)Abstract:

PURPOSE: To remove the effect of interference signal produced in an interrogator by processing a part of transmission signal to have reverse phase and same amplitude as the interference signal thereby producing a compensation signal.

CONSTITUTION: A demultiplexer 101 at an interference signal compensating section 200 branches a part of transmission signal outputted from a transmission system 100 and delivers the branched part to a phase shifter 102. The phase shifter 102 converts the received signal to have a reversed phase and an attenuator 103 converts the output signal from the phase shifter 102 to have same amplitude as an interference signal thus producing a compensation signal. A multiplexer 104 multiplexes the compensation signal and an interference signal mixed from a circulator 29, comprising a signal mixed from the transmission system 100 and a signal reflected one the end of an antenna 30, thus removing the interference signal.

